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Division of Public Water Supplies
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Groundwater Quality Protection Program

WEST SHORELAND SBDV
FACILITY NUMBER 0977050
WELL SITE SURVEY
REPORT

Division of Public Water Supplies

IEPA/PWS/90-181

GROUNDWATER QUALITY PROTECTION PROGRAM:

WEST SHORELAND SBDV
FACILITY NUMBER 0977050
WELL SITE SURVEY
REPORT

Prepared by:

Division of Public Water Supplies

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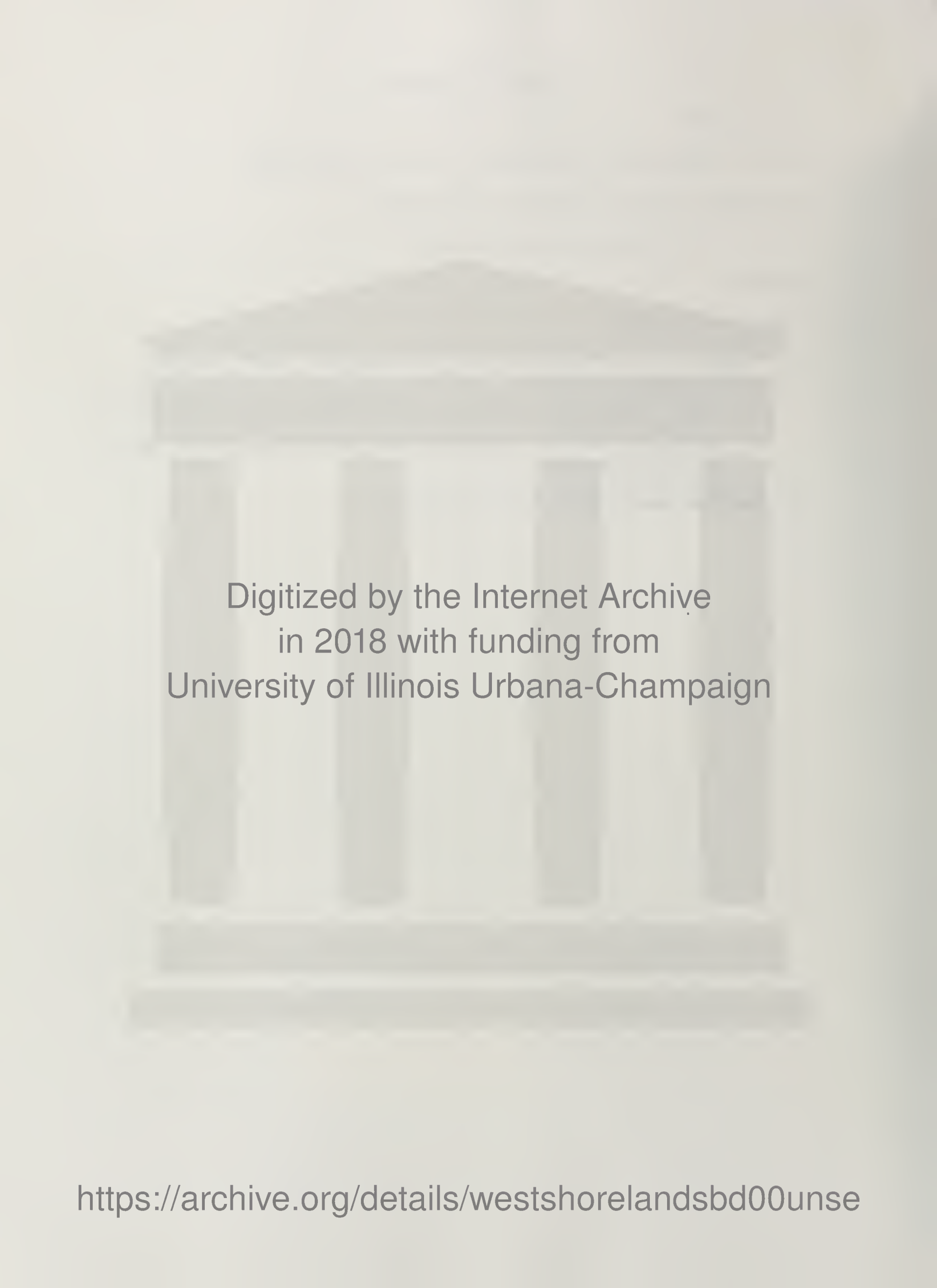
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INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around your well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

West Shoreland Sbdv. (Fac. #0977050) has two public water supply wells, wells #1 (IEPA #20222) and #2 (IEPA #20223). The facility supplies approx. 19,950 gallons per day to 63 services.

The surficial geologic susceptibility (permeability) rating is E. The aquifer is overlain by thick, relatively impermeable silty/clayey till. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility Wells Report (Appendix C).

Table I provides a description of each well as follows:

Table I

	Minimum Setback (Ft.)	Maximum Setback (Ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/Ft.)	Treatment	Aquifer	Well Depth (Ft.)	Well Logs Avl
Well #1 (20222)	200	NA	A	55 .079		Chl.	Shallow Bedrock	210	Yes
Well #2 (20223)	200	NA	A	50 .072		Chl.	Same	210	Yes

A - Active

GROUNDWATER SAMPLING AND MONITORING HISTORY

West Shoreland Sbdv. wells #1 and #2 were sampled as part of the Statewide Groundwater Monitoring Program on July 29, 1986. The samples were analyzed for volatile organic/aromatic compounds (VOC/VOA) and inorganic chemicals (IOC).

Review of the VOC/VOA analyses did not indicate quantifiable levels of any organic compounds. The IOC analyses performed indicate that the parameters are consistent with those of other shallow bedrock aquifers in northeastern Illinois (Appendix D).

WELL SITE SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory that relate information about potential contamination sources,

routes and possible problem sites to the public water supply well(s). The location of the potential sources, routes, possible problem sites, minimum setback zone and 1,000 Ft. survey area are all displayed on the aerial photographic map (Appendix B).

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages inventory units within and bordering a 1,000 Ft. radius of the wellhead. A unit is defined as "any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production)". (See Groundwater Primer pg. 19) The agency 5-digit well number is associated with a map code or unit, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (Primer pages 18-19). Each unit or map code is then described and associated with an owner/address. The distance and direction from the wellhead is also indicated.

Survey Results and Findings

The West Shoreland Sbdv. well site survey was conducted on June 28, 1989 by Fred Martinez of the Agency's Elgin Regional Office. Mr. Martinez interviewed Murney Swanson, of Swanson Water Treatment Inc., during the initial sampling of the wells. The following describes the survey results and findings for West Shoreland Sbdv.:

West Shoreland Sbdv. #1 (20222) [Refer to Aerial Photograph B]
The survey area is urban. The area is a mixture of low density residential and open space. The well is located near the intersection of Trinity Dr. and Ilride Dr. There were no potential contamination sources or routes observed.

There are, however, two possible problem sites located outside the minimum setback zone, but within the 1,000 Ft. survey area. These sites include: D&M Auto, located 820 Ft. NW of the wellhead, map code 1; Phillips 66, located 600 Ft. NW of the wellhead, map code 2.

West Shoreland Sbdv. #2 (20223) [Refer to Aerial Photograph B]
The survey area is urban. The area is a mixture of low density residential and open space. The well is located near the intersection of Trinity Dr. and Ilride Dr., E of well #1. There were no potential contamination sources or routes observed.

There are, however, two possible problem sites located outside the minimum setback zone, but within the 1,000 Ft. survey area. These sites include: D&M Auto, located 870 Ft. NW of the wellhead, map code 1; Phillips 66, located 660 Ft. NW of the wellhead, map code 2.

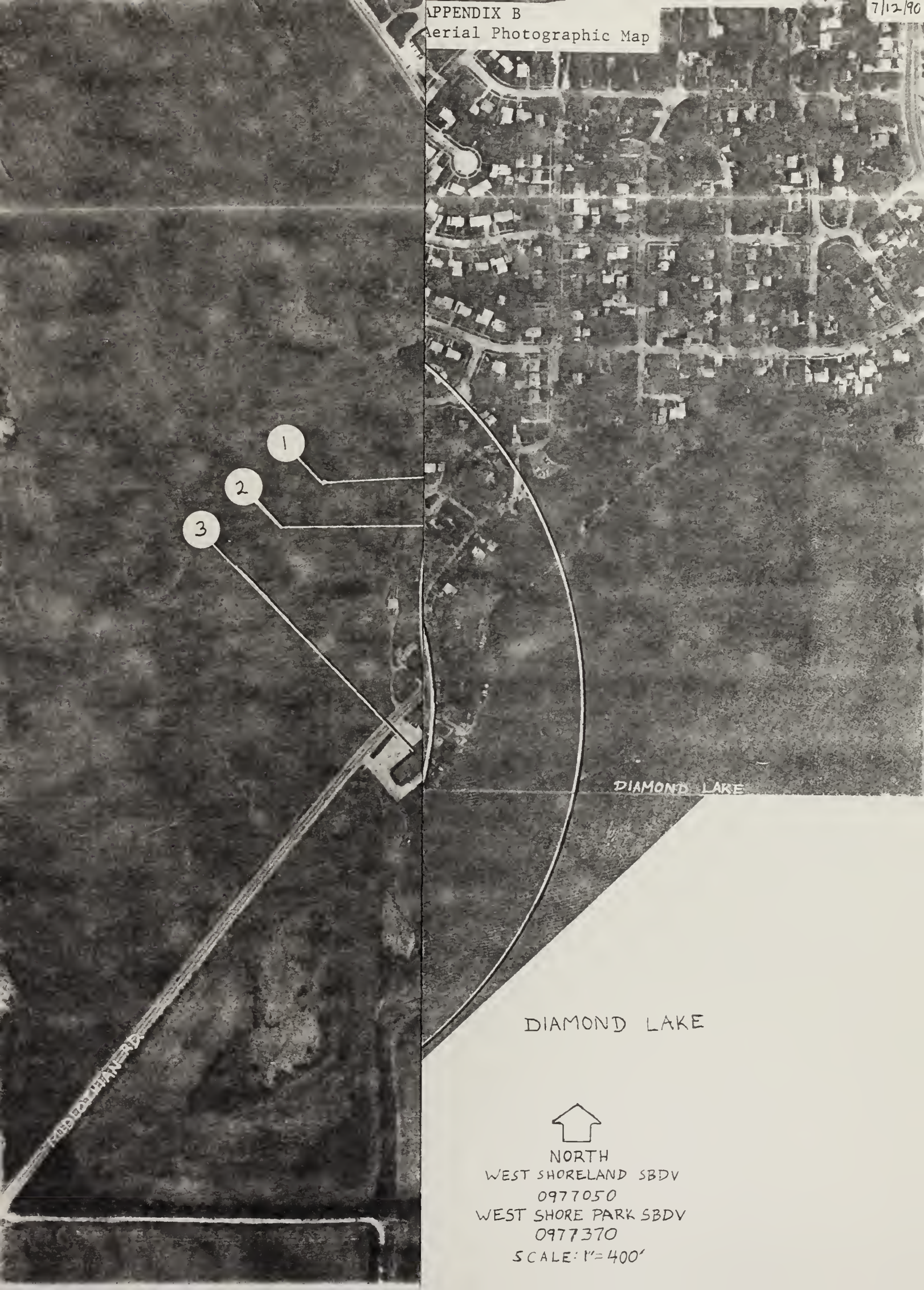
SUMMARY

The well site survey and monitoring indicate that there are four potential contamination source(s), route(s), or possible problem site(s) that could possibly impact the groundwater utilized by West Shoreland Sbdv.

The Illinois Environmental Protection Act provides minimum setback zones for your well(s) and are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to establish maximum setback zones up to 1,000 Ft. The responsibility of regulation would then be

APPENDIX B
Aerial Photographic Map

7/12/90

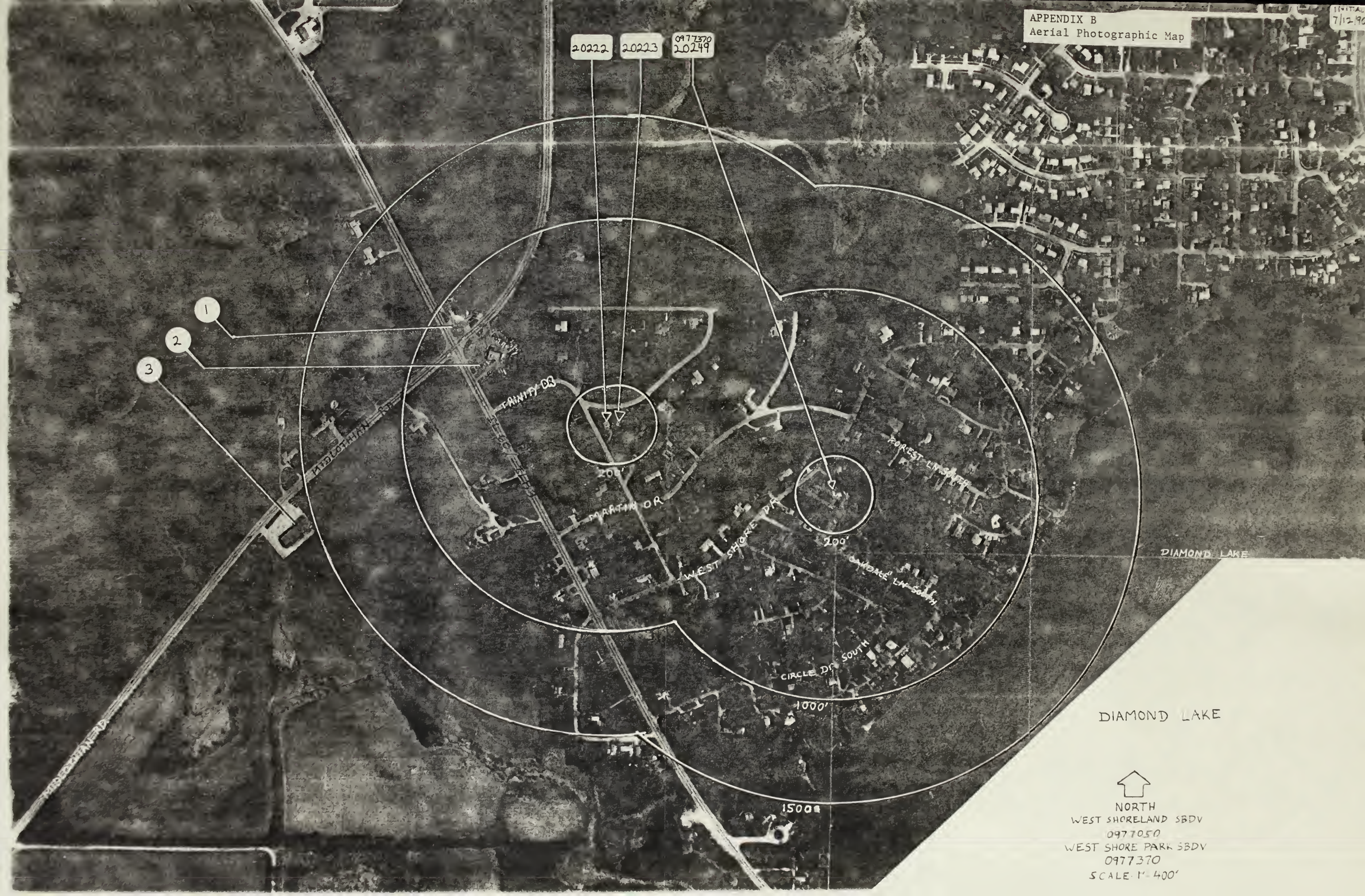


DIAMOND LAKE

NORTH

WEST SHORELAND SBDV
0977050
WEST SHORE PARK SBDV
0977370

SCALE: 1"=400'


APPENDIX B
Aerial Photographic Map
INITIAL
7/12-90
20222
20223
0977370
20249
1
2
3
TRINITY DR
MARTIN DR
WEST SHORE DR
FOREST LN SOUTH
DIAMOND LAKE
CIRCLE DR SOUTH
200'
1000'
1500'
DIAMOND LAKE
NORTH
WEST SHORELAND SBDV
0977050
WEST SHORE PARK SBDV
0977370
SCALE 1" = 400'

assumed by local officials through the adoption of a maximum setback ordinance.

FM:0045A-6

TECHNICAL APPENDICES

APPENDIX A

Topographic Map Displaying West Shoreland Sbdv.

APPENDIX: B1 - West Shoreland Sbdv. #1 (IEPA #20222) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Martinez
SURVEY DATE: 06-28-89

ADDRESS:
West Shoreland Sbdv.
19712 W. Trinity St.
Mundelein, IL 60060

AGENCY WELL NO: 20222
WELL NAME & DESC.: Well #1, near intersection of Trinity Dr. and Ilride Dr.
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 0977050, West Shoreland Sbdv.
FAC. PHONE NUMBER: 312/949-7392
LOCATION:
TWP, RNG, SECTION, 10 ACRE PLOT:
44N, 10E, 36, 6H
DISTANCE FROM CORNER: 550'S, 1600'E
QUAD SHEET CODE & NAME: 008D, Grayslake
MIN. SETBACK: 200 FT.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E, Thick, relatively impermeable silty/clayey till.
AGE OF WELL(DATE OF WELL CONSTRUCTION): 1953
WELL DEPTH: 210 FT.
AQUIFER CODE: 5656, Shallow Bedrock
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The area is a mixture of low density residential and open space.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Murney Swanson - Swanson Water Treatment Inc., 410 E. Oak St., Mundelein, IL
- Pres. - 312/949-7392

Appendix: B1 - INVENTORY AND SYNOPSIS OF UNITS West Shoreland Sbdv. #1 (IEPA #20222)

Classification Key*

Min. Zone	Outside Min. Zone
PP = Potential Primary	OP = Potential Primary
PS = Potential Secondary	OS = Potential Secondary
RI = Potential Route	OR = Potential Route
CC = Certified	CC = Certified
XI = Unknown	OX = Unknown
CL = Cleanup	CU = Cleanup

Well No. - Map Code - Classf*: 20222-01-OX
Name & Address of Unit Owner: D&M Auto Service, 26997 N. Rt. 83, Mundelein, IL 60060
Description and Comments: Auto dealer and service.
Pre or Post (Y,N): Y
Distance and Direction: 820'NW

Well No. - Map Code - Classf*: 20222-02-OS
Name & Address of Unit Owner: Phillips 66, Midlothian and Rt. 83/60, Mundelein, IL 60060
Description and Comments: Greater than 500 gals. below ground storage of gasoline.
Pre or Post (Y,N): Y
Distance and Direction: 600'NW

Well No. - Map Code - Classf*: 20222-03-
Name & Address of Unit Owner: Countryside Fire Dept., Midlothian Rd., Mundelein, IL 60060
Description and Comments: Fire station.
Pre or Post (Y,N): Y
Distance and Direction: 1500'WSW

Appendix: B2 - INVENTORY AND SYNOPSIS OF UNITS West Shoreland Sbdv. #2 (IEPA #20223)

Classification Key*

Min. Zone	Outside Min. Zone
PP = Potential Primary	OP = Potential Primary
PS = Potential Secondary	OS = Potential Secondary
RI = Potential Route	OR = Potential Route
CC = Certified	CC = Certified
XI = Unknown	OX = Unknown
CL = Cleanup	CU = Cleanup

Well No. - Map Code - Classf*: 20223-01-OX
Name & Address of Unit Owner: D&M Auto Service, 26997 N. Rt. 83, Mundelein, IL 60060
Description and Comments: Auto dealer and service.
Pre or Post (Y,N): Y
Distance and Direction: 870'NW

Well No. - Map Code - Classf*: 20223-02-OS
Name & Address of Unit Owner: Phillips 66, Midlothian and Rt. 83/60, Mundelein, IL 60060
Description and Comments: Greater than 500 gals. below ground storage of gasoline.
Pre or Post (Y,N): Y
Distance and Direction: 660'NW

Well No. - Map Code - Classf*: 20223-03-
Name & Address of Unit Owner: Countryside Fire Dept., Midlothian Rd., Mundelein, IL 60060
Description and Comments: Fire station.
Pre or Post (Y,N): Y
Distance and Direction: 1580'WSW

APPENDIX: B2 - West Shoreland Sbdv. #2 (IEPA #20223) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Martinez
SURVEY DATE: 06-28-89

ADDRESS:
West Shoreland Sbdv.
19712 W. Trinity St.
Mundelein, IL 60060

AGENCY WELL NO: 20223
WELL NAME & DESC.: Well #2, near intersection of Trinity Dr. and Ilride Dr, E of well #1.
TREATMENT APPLICATION POINT: 02
FACILITY NO. & NAME: 0977050, West Shoreland Sbdv.
FAC. PHONE NUMBER: 312/949-7392
LOCATION:
TWP, RNG, SECTION, 10 ACRE PLOT:
44N, 10E, 36, 6H
DISTANCE FROM CORNER: 550'S, 1530'E
QUAD SHEET CODE & NAME: 008D, Grayslake
MIN. SETBACK: 200 FT.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E, Thick, relatively impermeable silty/clayey till.
AGE OF WELL(DATE OF WELL CONSTRUCTION): 09-79
WELL DEPTH: 210 FT.
AQUIFER CODE: 5656, Shallow Bedrock
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The area is a mixture of low density residential and open space.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Murney Swanson - Swanson Water Treatment Inc., 410 E. Oak St., Mundelein, IL
- Pres. - 312/949-7392

APPENDIX C

FACILITY: 0977050 WEST SHORELAND SBDV

---------- OWNER ----------

THOMAS ENGELS

PO BOX 605

MUNDELEIN IL 60060

---------- OFFICIAL CUSTODIAN ----------

WELL: 20222 WELL #1 STATUS: ACTIVE DEPTH(FT): 210
LATITUDE: N42 15 10.0 LONGITUDE: W088 01 15.0 TWP: 44N RNG: 10E SEC: 36 PLOT: 6H

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0200 ---
AQUIFERS: DEVONIAN SILURIAN DOLOMITE

WELL: 20223 WELL 2 STATUS: ACTIVE DEPTH(FT): 210
LATITUDE: N42 15 10.5 LONGITUDE: W088 01 15.0 TWP: 44N RNG: 10E SEC: 36 PLOT: 6H

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0200 ---
AQUIFERS: SILURIAN DOLOMITE SILURIAN SYSTEM

SUSCEPTIBILITY CODES

LAND BURIAL: E = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 50 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

LAND SPREADING: D2 = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 20 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

APPENDIX D

FACILITY: 0977050 WEST SHORELAND SBDV — STATUS: A — PUBLIC: Y — COMM: Y — TYPE WATER: G
TAP: 01 WELL #1 TRINITY DRIVE — STATUS: A
RAW SRCE: 20222 WELL #1 — STATUS: A

SAMPLE NO: Z004368 — LOCATION: WELL
SMPL TYPE: RAW — COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR — COMMENTS:
SMPL PROG: I-GWM INORG — OBSRVATNS:

COLL DATE: 07/29/86 — DELIVERED BY:
LAB RCVD: 00/00/00 — RECEIVED BY:
LAB COMPL: 00/00/00 — LAB SUPERVISOR:
SMPL PERIOD: 07/86 — FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.670				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010	<			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	<	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		56.000				
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		45.000				
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		96.000				
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.200				
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		4.800				
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		390.000				
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.580		4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		15.000				
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		12.000		1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		2.000	<			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		559.000				
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	<	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000	<	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000	<	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		50.000	<	1000.000		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		10.000		150.000		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000	<			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000	<	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		1896.000				
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000	<			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000	<	5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000	<			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000	<	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000	<			
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		671.000				
0000001	033	71900	MERCURY,TOTAL UG/L AS HG		0.010	<	2.000		
0000001	034	00059	FLOW (PUMPING) RATE GAL/MIN		49.000				
0000001	035	00410	ALKALINITY,TOTAL MG/L AS CACO3		114.000				
0000001	036	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		27.000				
0000001	037	90410			114.000				

SAMPLE NO: B050278 — LOCATION: WELL #1
SMPL TYPE: RAW — COLLECTOR: CAROL SWANSON

COLL DATE: 06/22/82 — DELIVERED BY:
LAB RCVD: 09/08/82 — RECEIVED BY:

FACILITY: 0977050 WEST SHORELAND SUBV *** CONTINUED ***

SMPL PURP: 1-ROUTINE COMMENTS:
SMPL PROG: I-GWM INORG OBSRVATNS:

LAB COMPL: LAB SUPERVISOR:
SMPL PERIOD: 06/82 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		970.000				
		00403	PH LABORATORY UNITS		7.900				
		00410	ALKALINITY,TOTAL MG/L AS CACO3		114.000				
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.570				
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005	<	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		312.000				
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		54.000				
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		45.800				
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		94.000				
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.300				
		00940	CHLORIDE,TOTAL MG/L AS CL		5.000				
		00945	SULFATE,TOTAL MG/L AS SO4		401.000				
		00951	FLUORIDE,TOTAL MG/L AS F		0.650		4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		15.000				
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		5.000	<	1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		610.000				
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	<	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000	<	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000	<	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		71.000		1000.000		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		9.000		150.000		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000	<			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000	<	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2060.000				
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000	<			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000	<	5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000	<	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		752.000				
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		580.000				
		71900	MERCURY,TOTAL UG/L AS HG		0.050	<	2.000		

SAMPLE NO: Z004367 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 07/29/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 07/86 FUND CODE:

FACILITY: 0977050 WEST SHORELAND SBOV *** CONTINUED ***

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	DRINK WTR STANDARDS	RAW WTR STANDARDS	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN		49.000			
0000001	019	00410	ALKALINITY,TOTAL MG/L AS CACO3		114.000			
0000001	020	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		27.000			
0000001	021	90410			114.000			

FACILITY: 0977050 WEST SHORELAND SBOV STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 02 WELL #2 STATUS: A
RAW SRCE: 20223 WELL 2 STATUS: A

SAMPLE NO: Z004366 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 07/29/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 07/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	DRINK WTR STANDARDS	RAW WTR STANDARDS	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.550			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		55.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		45.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		97.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.300			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		4.800			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		390.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.580		4.000	
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		15.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		

FACILITY: 0977050 WEST SHORELAND SBDV *** CONTINUED ***

0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	13.000		1000.000
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	2.000	<	
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	573.000		
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000	<	10.000
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	5.000	<	50.000
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<	
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<	5000.000
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	50.000	<	1000.000
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000	<	50.000
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	9.000		150.000
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<	
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000	<	50.000
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	1899.000		
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000	<	
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<	5000.000
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000	<	
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000	<	10.000
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000	<	
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	710.000		
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.010	<	2.000
0000001	034	00059	FLOW (PUMPING) RATE GAL/MIN	53.000		
0000001	035	00410	ALKALINITY,TOTAL MG/L AS CACO3	112.000		
0000001	036	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	25.000		
0000001	037	90410		112.000		

SAMPLE NO: Z004365 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 07/29/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 07/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000	<			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000	<	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000	<	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000	<			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000	<			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000	<			
0000001	007	34010	TOLUENE UG/L		1.000	<			
0000001	008	34030	BENZENE UG/L		1.000	<	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000	<			
0000001	010	34371	ETHYLBENZENE UG/L		1.000	<			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000	<			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000	<			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000	<			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000	<	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000	<	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000	<			
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000	<	5.000		

FACILITY: 0977050 WEST SHORELAND SBDV *** CONTINUED ***

0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN	53.000
0000001	019	00410	ALKALINITY,TOTAL MG/L AS CACO3	112.000
0000001	020	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	25.000
0000001	021	90410		112.000

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